



VIENNA SYMPHONIC LIBRARY

Vienna Instruments Recorders

Mapping Documentation

Soprano Recorder

Alto Recorder

Tenor Recorder

Bass Recorder

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Introduction

This document contains the mapping list for the Recorders Collection of Vienna Instruments. You will find in it a comprehensive survey of the articulations/patches for the Standard and the Extended Libraries of each instrument, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset in the collection.

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Where the type of articulation requires a special mapping, the mapping layout will be shown in a detailed graphic.

The velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements. Since the recorders have no great dynamic range, the maximum number of velocity levels is 2 (staccatos).

Articulations

For the Vienna Instruments Recorders, the following articulations were recorded:

- Staccato
- Sustained with and without vibrato
- Sustained marcato, with and without vibrato
- Crescendo and diminuendo, 1.5, 2, and 3 sec. (except bass recorder)
- Interval performances, legato, with and without vibrato
- Trill performances, with and without vibrato
- Repetition performances, legato with and without vibrato (bass recorder: only 1 legato Patch), staccato

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for a double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its Matrix keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here.

RAM usage

The Patch, Matrix, and Preset informations also list the item's RAM usage. This is based on the Vienna Instrument software's default preload size of 16,384 samples. The preload size can be adjusted according to your needs: e.g., if you're using fast SSD harddrives, you can use a much smaller value, thus increasing the possible amount of loaded samples by reducing RAM usage. On the other hand, on computers with a slow harddisk you might set the preload size to 32,768 samples, which doubles RAM usage but may prevent glitches during playback. Here's a simple table listing how many samples you can load into 100 MB RAM with the possible settings:

Preload size	32,768	16,384	8,192	4,096	3,172	2,048	1,536
Samples	800	1,600	3,200	6,400	9,600	12,800	16,000

And here's another example for how much RAM 1,024 loaded samples will take up with the available settings:

Preload size	32,768	16,384	8,192	4,096	3,172	2,048	1,536
RAM	128	64	32	16	12	8	6

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

48 Recorders

Patches

01 Soprano Recorder

Range: C5–A7

Articulations: Staccato

Sustained with and without vibrato

Sustained marcato, with and without vibrato

Crescendo and diminuendo, 1.5, 2, and 3 sec.

Interval performances, legato, with and without vibrato

Trill performances, with and without vibrato

Repetition performances, legato with and without vibrato, staccato

01 RE-So_staccato

Samples: 160

RAM: 10 MB

Single notes: Staccato

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

11 RE-So_sustain_Vib

Samples: 94

RAM: 5 MB

Single notes: Sustained, vibrato

1 velocity layer

Release samples

12 RE-So_sustain_noVib

Samples: 94

RAM: 5 MB

Single notes: Sustained, without vibrato

1 velocity layer

Release samples

13 RE-So_sus_Vib-marc

Samples: 60

RAM: 3 MB

Single notes: Sustained, marcato, vibrato

1 velocity layer

Release samples

2 Alternations

14 RE-So_sus_noVib-marc

Samples: 60

RAM: 3 MB

Single notes: Sustained, marcato, without vibrato

1 velocity layer

Release samples

2 Alternations

21 RE-So_dyn_1'5s

Range: C5–G7

Samples: 38

RAM: 2 MB

Dynamics: Crescendo and diminuendo, 1.5 sec.

1 velocity layer

AB switch: crescendo/diminuendo

22 RE-So_dyn_2s	Range: C5–G7	Samples: 38	RAM: 2 MB
Dynamics: Crescendo and diminuendo, 2 sec. 1 velocity layer AB switch: crescendo/diminuendo			
23 RE-So_dyn_3s	Range: C5–G7	Samples: 38	RAM: 2 MB
Dynamics: Crescendo and diminuendo, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo			
31 RE-So_perf-legato_Vib	Range: C5–F7	Samples: 362	RAM: 22 MB
Interval performances: Legato, vibrato Monophonic 1 velocity layer Release samples			
32 RE-So_perf-legato_noVib	Range: C5–F7	Samples: 362	RAM: 22 MB
Interval performances: Legato, without vibrato Monophonic 1 velocity layer Release samples			
33 RE-So_perf-trill_Vib	Range: C5–F7	Samples: 678	RAM: 42 MB
Multi interval performances: Trills, vibrato Monophonic 1 velocity layer Release samples			
34 RE-So_perf-trill_noVib	Range: C5–F7	Samples: 678	RAM: 42 MB
Multi interval performances: Trills, without vibrato Monophonic 1 velocity layer Release samples			
41 RE-So_perf-rep_leg_Vib		Samples: 100	RAM: 6 MB
Repetition performances: Legato, vibrato 1 velocity layer			
42 RE-So_perf-rep_leg_noVib		Samples: 100	RAM: 6 MB
Repetition performances: Legato, without vibrato 1 velocity layer			
43 RE-So_perf-rep_sta		Samples: 180	RAM: 11 MB
Repetition performances: Staccato 1 velocity layer			

02 Alto Recorder**Range: F4–A#6****Articulations:** Staccato

Sustained with and without vibrato

Sustained marcato, with and without vibrato

Crescendo and diminuendo, 1.5, 2, and 3 sec.

Interval performances, legato, with and without vibrato

Trill performances, with and without vibrato

Repetition performances, legato with and without vibrato, staccato

01 RE-AI_staccato**Range: F4–D7****Samples: 168****RAM: 10 MB**

Single notes: Staccato

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

11 RE-AI_sustain_Vib**Samples: 84****RAM: 5 MB**

Single notes: Sustained, vibrato

1 velocity layer

Release samples

12 RE-AI_sustain_noVib**Samples: 84****RAM: 5 MB**

Single notes: Sustained, without vibrato

1 velocity layer

Release samples

13 RE-AI_sus_Vib-marc**Samples: 54****RAM: 3 MB**

Single notes: Sustained, marcato, vibrato

1 velocity layer

Release samples

2 Alternations

14 RE-AI_sus_noVib-marc**Samples: 54****RAM: 3 MB**

Single notes: Sustained, marcato, without vibrato

1 velocity layer

Release samples

2 Alternations

21 RE-AI_dyn_1'5s**Samples: 36****RAM: 2 MB**

Dynamics: Crescendo and diminuendo, 1.5 sec.

1 velocity layer

AB switch: crescendo/diminuendo

22 RE-AI_dyn_2s**Samples: 36****RAM: 2 MB**

Dynamics: Crescendo and diminuendo, 2 sec.

1 velocity layer

AB switch: crescendo/diminuendo

23 RE-AI_dyn_3s**Samples: 36****RAM: 2 MB**

Dynamics: Crescendo and diminuendo, 3 sec.

1 velocity layer

AB switch: crescendo/diminuendo

31 RE-AI_perf-legato_Vib	Range: F4–G#6	Samples: 332	RAM: 20 MB
Interval performances: Legato, vibrato Monophonic 1 velocity layer Release samples			
32 RE-AI_perf-legato_noVib	Range: F4–G#6	Samples: 332	RAM: 20 MB
Interval performances: Legato, without vibrato Monophonic 1 velocity layer Release samples			
33 RE-AI_perf-trill_Vib	Range: F4–G#6	Samples: 568	RAM: 35 MB
Multi interval performances: Trills, vibrato Monophonic 1 velocity layer Release samples			
34 RE-AI_perf-trill_noVib	Range: F4–G#6	Samples: 568	RAM: 35 MB
Multi interval performances: Trills, without vibrato Monophonic 1 velocity layer Release samples			
41 RE-AI_perf-rep_leg_Vib		Samples: 90	RAM: 5 MB
Repetition performances: Legato, vibrato 1 velocity layer			
42 RE-AI_perf-rep_leg_noVib		Samples: 90	RAM: 5 MB
Repetition performances: Legato, without vibrato 1 velocity layer			
43 RE-AI_perf-rep_sta		Samples: 162	RAM: 10 MB
Repetition performances: Staccato 1 velocity layer			

03 Tenor Recorder**Range: C4–F6****Articulations:** Staccato

Sustained with and without vibrato

Sustained marcato, with and without vibrato

Crescendo and diminuendo, 1.5, 2, and 3 sec.

Interval performances, legato, with and without vibrato

Trill performances, with and without vibrato

Repetition performances, legato with and without vibrato, staccato

01 RE-Te_staccato**Samples: 144****RAM: 9 MB**

Single notes: Staccato

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

11 RE-Te_sustain_Vib**Samples: 84****RAM: 5 MB**

Single notes: Sustained, vibrato

1 velocity layer

Release samples

12 RE-Te_sustain_noVib**Samples: 84****RAM: 5 MB**

Single notes: Sustained, without vibrato

1 velocity layer

Release samples

13 RE-Te_sus_Vib-marc**Samples: 54****RAM: 3 MB**

Single notes: Sustained, marcato, vibrato

1 velocity layer

Release samples

2 Alternations

14 RE-Te_sus_noVib-marc**Samples: 54****RAM: 3 MB**

Single notes: Sustained, marcato, without vibrato

1 velocity layer

Release samples

2 Alternations

21 RE-Te_dyn_1'5s**Samples: 36****RAM: 2 MB**

Dynamics: Crescendo and diminuendo, 1.5 sec.

1 velocity layer

AB switch: crescendo/diminuendo

22 RE-Te_dyn_2s**Samples: 36****RAM: 2 MB**

Dynamics: Crescendo and diminuendo, 2 sec.

1 velocity layer

AB switch: crescendo/diminuendo

23 RE-Te_dyn_3s**Samples: 36****RAM: 2 MB**

Dynamics: Crescendo and diminuendo, 3 sec.

1 velocity layer

AB switch: crescendo/diminuendo

31 RE-Te_perf-legato_Vib	Range: C4–D#6	Samples: 332	RAM: 20 MB
Interval performances: Legato, vibrato Monophonic 1 velocity layer Release samples			
32 RE-Te_perf-legato_noVib	Range: C4–D#6	Samples: 332	RAM: 20 MB
Interval performances: Legato, without vibrato Monophonic 1 velocity layer Release samples			
33 RE-Te_perf-trill_Vib	Range: C4–D#6	Samples: 592	RAM: 37 MB
Multi interval performances: Trills, vibrato Monophonic 1 velocity layer Release samples			
34 RE-Te_perf-trill_noVib	Range: C4–D#6	Samples: 592	RAM: 37 MB
Multi interval performances: Trills, without vibrato Monophonic 1 velocity layer Release samples			
41 RE-Te_perf-rep_leg_Vib		Samples: 90	RAM: 5 MB
Repetition performances: Legato, vibrato 1 velocity layer			
42 RE-Te_perf-rep_leg_noVib		Samples: 90	RAM: 5 MB
Repetition performances: Legato, without vibrato 1 velocity layer			
43 RE-Te_perf-rep_sta		Samples: 162	RAM: 10 MB
Repetition performances: Staccato 1 velocity layer			

04 Bass Recorder		Range: C3–D5	
Articulations: Staccato Sustained with and without vibrato Sustained marcato, with and without vibrato Interval performances, legato, with and without vibrato Trill performances, with and without vibrato Repetition performances legato, staccato			
01 RE-Bs_staccato		Samples: 128	RAM: 8 MB
Single notes: Staccato 2 velocity layers: 0–88 p; 89–127 f 4 Alternations			
11 RE-Bs_sustain_Vib		Samples: 75	RAM: 4 MB
Single notes: Sustained, vibrato 1 velocity layer Release samples			
12 RE-Bs_sustain_noVib		Samples: 75	RAM: 4 MB
Single notes: Sustained, without vibrato 1 velocity layer Release samples			
13 RE-Bs_sus_Vib-marc		Samples: 48	RAM: 3 MB
Single notes: Sustained, marcato, vibrato 1 velocity layer Release samples 2 Alternations			
14 RE-Bs_sus_noVib-marc		Samples: 48	RAM: 3 MB
Single notes: Sustained, marcato, without vibrato 1 velocity layer Release samples 2 Alternations			
31 RE-Bs_perf-legato_Vib		Range: C3–C5	Samples: 299
Interval performances: Legato, vibrato Monophonic 1 velocity layer Release samples			
32 RE-Bs_perf-legato_noVib		Range: C3–C5	Samples: 299
Interval performances: Legato, without vibrato Monophonic 1 velocity layer Release samples			
33 RE-Bs_perf-trill_Vib		Range: C3–C5	Samples: 539
Multi interval performances: Trills, vibrato Monophonic 1 velocity layer Release samples			

34 RE-Bs_perf-trill_noVib**Range: C3–C5****Samples: 539****RAM: 33 MB**

Multi interval performances: Trills, without vibrato

Monophonic

1 velocity layer

Release samples

41 RE-Bs_perf-rep_leg**Samples: 80****RAM: 5 MB**

Repetition performances: Legato

1 velocity layer

43 RE-Bs_perf-rep_sta**Samples: 144****RAM: 9 MB**

Repetition performances: Staccato

1 velocity layer

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

01 RE-So_Art-Combi

Samples: 1550 RAM: 96 MB

Soprano Recorder: all articulations

Matrix switches: Horizontal: Keyswitches, C1–F#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1
V1	staccato	sustained vibrato	marcato vibrato	legato vibrato	trills vibrato	legato reps. vibrato	dyn 1.5 sec.
V2	staccato	sustained no vibrato	marcato no vibrato	legato no vibrato	trills no vibrato	legato reps. no vibrato	dyn 2 sec.
V3	staccato	sustained vib/no vib Xfade	marcato vib/no vib Xfade	legato vib/no vib Xfade	trills vib/no vib Xfade	staccato reps.	dyn 3 sec.

02 RE-Al_Art-Combi

Samples: 1380 RAM: 86 MB

Alto Recorder: all articulations

Matrix switches: Horizontal: Keyswitches, C1–F#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1
V1	staccato	sustained vibrato	marcato vibrato	legato vibrato	trills vibrato	legato reps. vibrato	dyn 1.5 sec.
V2	staccato	sustained no vibrato	marcato no vibrato	legato no vibrato	trills no vibrato	legato reps. no vibrato	dyn 2 sec.
V3	staccato	sustained vib/no vib Xfade	marcato vib/no vib Xfade	legato vib/no vib Xfade	trills vib/no vib Xfade	staccato reps.	dyn 3 sec.

03 RE-Te_Art-Combi

Samples: 1380 RAM: 86 MB

Tenor Recorder: all articulations

Matrix switches: Horizontal: Keyswitches, C1–F#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1
V1	staccato	sustained vibrato	marcato vibrato	legato vibrato	trills vibrato	legato reps. vibrato	dyn 1.5 sec.
V2	staccato	sustained no vibrato	marcato no vibrato	legato no vibrato	trills no vibrato	legato reps. no vibrato	dyn 2 sec.
V3	staccato	sustained vib/no vib Xfade	marcato vib/no vib Xfade	legato vib/no vib Xfade	trills vib/no vib Xfade	staccato reps.	dyn 3 sec.

04 RE-Bs_Art-Combi

Samples: 1066 RAM: 66 MB

Bass Recorder: all articulations

Matrix switches: Horizontal: Keyswitches, C1–F#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1
V1	staccato	sustained vibrato	marcato vibrato	legato vibrato	trills vibrato	legato reps.	(empty)
V2	staccato	sustained no vibrato	marcato no vibrato	legato no vibrato	trills no vibrato	legato reps.	(empty)
V3	staccato	sustained vib/no vib Xfade	marcato vib/no vib Xfade	legato vib/no vib Xfade	trills vib/no vib Xfade	staccato reps.	(empty)

Presets**01 RE-So_Peset Art-Combi**

Matrix: 01 RE-So_Art-Combi

Samples: 1550 RAM: 96 MB**02 RE-AI_Preset Art-Combi**

Matrix: 02 RE-AI_Art-Combi

Samples: 1380 RAM: 86 MB**03 RE-Te_Preset Art-Combi**

Matrix: 03 RE-Te_Art-Combi

Samples: 1380 RAM: 86 MB**04 RE-Bs_Preset Art-Combi**

Matrix: 04 RE-Bs_Art-Combi

Samples: 1066 RAM: 66 MB